Perception & Psychophysics

Charles W. Eriksen, Editor University of Illinois, Urbana-Champaign

Associate Editors

Edward C. Carterette, University of California, Los Angeles
Robert Fox, Vanderbilt University
Alfred B. Kristofferson, McMaster University
Lester E. Krueger, The Ohio State University
Herschel W. Leibowitz, Pennsylvania State University
Martha Teghtsoonian, Smith College
Christopher W. Tyler, The Smith-Kettlewell Eye Research Foundation

Consulting Editors

Lorraine Allan, McMaster University
Elizabeth L. Bjork, University of California, Los Angeles
Randolph Blake, Northwestern University
John Lott Brown, University of South Florida
Vincent Di Lollo, University of Alberta
S. M. Ebenholtz, SUNY, State College of Optometry
Howard E. Egeth, Johns Hopkins University
Trygg Engen, Brown University
John H. Flowers, University of Nebraska-Lincoln
Wendell R. Garner, Yale University
Barbara Gillam, University of New South Wales
Walter C. Gogel, University of California, Santa Barbara

James E. Hoffman, University of Delaware
Tarow Indow, University of California, Irvine
Joseph S. Lappin, Vanderbilt University
Willard D. Larkin, University of Maryland
Gregory R. Lockhead, Duke University
Jeffrey O. Miller, University of California, San Diego
W. Trammell Neill, Adelphi University
Robert Proctor, Aubum University
Dennis R. Proffin, University of Virginia
Robert Remez, Barnard College
Eugene R. Wist, University of Disseldorf, W. Germany

Managing Editor

Anne Matson Dossett

Assistant to Managing Editor Janis Dorough Foster

> Business Manager Ellen Woodard

Volume 41

Published monthly by THE PSYCHONOMIC SOCIETY, INC. 2904 Guadalupe Street, Austin, Texas 78705 Publication No. 427920

Second Class Postage paid at Austin, Texas 78710 Copyright 1987 by THE PSYCHONOMIC SOCIETY, INC.

STAFF IN URBANA

Alene Landreth

STAFF IN AUSTIN

Debra J. Chambers
Laura Crow
Lana Dieterich
Edward Pope Goodson
Dreanne M. Grenier
Wendy Hazelwood
Claudia McNutt
Richard A. Pennington
Gerard B. Pringle
Michael F. Slattery, Jr.
Ray Don Tilley
Gail Tosto-Geiger
Delia Vasquez
C. E. Wheeless

Contents of Volume 41

Allen, P. A. See Krueger, L. E. Badertscher, B. See Cuddy, L. L.		Eby, D. W., & Loomis, J. M. A study of visually di-	
Barron, A. See Cowan, N.		rected throwing in the presence of multiple distance cues	308
Bharucha, J. J., & Stoeckig, K. Priming of chords: Spreading activation or overlapping frequency spec-		Finlay, D. J., & Dodwell, P. C. Speed of apparent mo- tion and the wagon-wheel effect	29
tra?	519	Frick, R. W. The homogeneity effect in counting	8
Blough, P. M., & Slavin, L. K. Reaction time assess-		Frijters, J. E. R. See De Graaf, C.	
ments of gender differences in visual-spatial		Girgus, J. S., & Coren, S. The interaction between	
performance	276	stimulus variations and age trends in the Poggen-	
Braine, L. G., Plastow, E., & Greene, S. L. Judgments		dorff illusion	60
of shape orientation: A matter of contrasts	335	Garner, W. R. Location and color as cuing dimensions	
Brand, J. L., Holding, D. H., & Jones, P. D. Condi-		in contingent classification	202
tioning and blocking of the McCollough effect	313	Gogel, W. C., & Da Silva, J. A. Familiar size and the	
Brannan, J. R., & Williams, M. C. Allocation of visual		theory of off-sized perceptions	318
attention in good and poor readers	23	Gogel, W. C., & Da Silva, J. A. A two-process theory	
Browse, R. A. See Gurnsey, R.		of the response to size and distance	220
Butler, D. L., & Kring, A. M. Integration of features		Green, D. M. See Neff, D. L.	
in depictions as a function of size	159	Greene, S. L. See Braine, L. G.	
Butler, R. A. An analysis of the monaural displacement		Grossberg, S. Cortical dynamics of three-dimensional	
of sound in space	1	form, color, and brightness perception: I. Monocu-	
Christman, S. D. Effects of perceptual quality on		lar theory	87
hemispheric asymmetries in visible persistence	367	Grossberg, S. Cortical dynamics of three-dimensional	
Cohen, A. See Ivry, R. B.		form, color, and brightness perception: II. Binocu-	***
Coren, S., & Porac, C. Individual differences in visual-		lar theory	117
geometric illusions: Predictions from measures of	211	Gurnsey, R., & Browse, R. A. Micropattern proper-	
spatial cognitive abilities	211	ties and presentation conditions influencing visual	220
Coren, S. See Girgus, J. S.		texture discrimination	239
Cowan, N., & Barron, A. Cross-modal auditory-visual		Hamada, J. Overall brightness decrease observed in the	
Stroop interference and possible implications for	202	Ehrenstein illusion induced for both contrast	67
speech memory	393	polarities	67
Cowan, W. B. See Ware, C.		Harver, A., & Kotses, H. Perception of static respira-	449
Crassini, B. See Webster, W. R. Craton, L. G. See Yonas, A.		tory forces in young and old subjects	447
Crowder, R. G. See DeWitt, L. A.		ception of visual direction	35
Cuddy, L. L., & Badertscher, B. Recovery of the tonal		Hogben, J. H. See Di Lollo, V.	33
hierarchy: Some comparisons across age and levels		Holding, D. H. See Brand, J. L.	
of musical experience	609	Humphreys, G. W. See Quinlan, P. T.	
Da Silva, J. A. See Gogel, W. C. (2)	007	Ivry, R. B., & Cohen, A. The perception of doubly	
Davidson, B., Power, R. P., & Michie, P. T. The ef-		curved surfaces from intersecting contours	293
fects of familiarity and previous training on percep-		Jacobs, A. M. On the role of blank spaces for eye-	
tion of an ambiguous musical figure	601	movement control in visual search	473
Day, R. H., & Jolly, W. J. A note on apparent displace-		Jamieson, D. G., & Morosan, D. E. Training non-native	
ment of lines and dots on oblique parallels	187	speech contrasts in adults: Acquisition of the English	
De Graaf, C., Frijters, J. E. R., & van Trijp, J. C. M.		/\doldreds/-\theta/ contrast by francophones (Perception &	
Taste interaction between glucose and fructose as-		Psychophysics, 1986, 40, 205-215)	
sessed by functional measurement	383	Erratum	282
Deutsch, D. The tritone paradox: Effects of spectral		Jolly, W. J. See Day, R. H.	
variables	563	Jones, M. R. Dynamic pattern structure in music: Re-	
DeWitt, L. A., & Crowder, R. G. Tonal fusion of con-		cent theory and research	621
sonant musical intervals: The oomph in Stumpf.	73	Jones, P. D. See Brand, J. L.	
Di Lollo, V., & Hogben, J. H. Suppression of visible		Jordan, D. S. Influence of the diatonic tonal hierar-	
persistence as a function of spatial separation be-		chy at microtonal intervals	482
tween inducing stimuli	345	Jordan, K., & Randall, J. The effects of framing ratio	105
Dodwell, P. C. See Finlay, D. J.		and oblique length on Ponzo illusion magnitude .	435
Dowling, W. J., Lung, K. MT., & Herrbold, S. Aim-		Jordan, D. S., & Shepard, R. N. Tonal schemas: Evi-	100
ing attention in pitch and time in the perception of	640	dence obtained by probing distorted musical scales	489
interleaved melodies	642	Kendall, R. A. See Monahan, C. B.	

COZHEZHO

87

Kotses, H. See Harver, A.		Stoeckig, K. See Bharucha, J. J.	
Kring, A. M. See Butler, D. L.		Sturr, J. F. See Van Orden, K.	
Krueger, L. E. Effect of backward masking on same-		Taub, H. A. See Van Orden, K.	
different judgments	375	Thompson, W. B. See Yonas, A.	
Krueger, L. E., & Allen, P. A. Same-different judg-		Trehub, S. A. Infants' perception of musical patterns	635
ments of foveal and parafoveal letter pairs by older		Vannata, D. See Matin, E.	
adults	329	Van Orden, K., Sturr, J. F., & Taub, H. A. Context	
Krumhansl, C. L. See Palmer, C.		effects in brightness estimation	416
La Heij, W., & Vermeij, M. Reading versus naming:		van Trijp, J. C. M. See De Graaf, C.	
The effect of target set size on contextual interfer-		Vermeij, M. See La Heij, W.	
ence and facilitation	355	Ward, T. B., & Lewis, S. N. The influence of alcohol	
Lewis, S. N. See Ward, T. B.		and loud music on analytic and holistic processing	179
Loomis, J. M. See Eby, D. W.		Ware, C., & Cowan, W. B. Chromatic Mach bands:	
Lung, K. MT. See Dowling, W. J.		Behavioral evidence for lateral inhibition in human	
Marslen-Wilson, W. See Warren, P.		color vision	173
Matin, E., Rubsamen, C., & Vannata, D. Orientation		Warren, P., & Marslen-Wilson, W. Continuous uptake	
discrimination as a function of orientation and spa-		of acoustic cues in spoken word recognition	262
tial frequency	303	Webster, W. R., Crassini, B., & Willenberg, K. Simul-	
Michie, P. T. See Davidson, B.		taneous color contrast from McCollough effects is	
Miller, J. Priming is not necessary for selective-		spatially contingent	402
attention failures: Semantic effects of unattended,		Weisstein, N. See Wong, E.	
unprimed letters	419	Wenderoth, P., & O'Connor, T. Matching gaps between	
Monahan, C. B., Kendall, R. A., & Carterette, E. C.		misaligned pointers demonstrates that lines, both	
The effect of melodic and temporal contour on recog-		transverse and parallel, enhance Poggendorff	
nition memory for pitch change	576	illusions	165
Monahan, C. B. See Pitt, M. A.		Wenderoth, P., & O'Connor, T. Outline- and solid-	
Morosan, D. E. See Jamieson, D. G.		angle orientation illusions have different deter-	
Mouloua, M. See Parasuraman, R.		minants	45
Nakamura, T. The communication of dynamics be-		Willenberg, K. See Webster, W. R.	
tween musicians and listeners through musical	525	Williams, M. C. See Brannan, J. R.	
performance	525	Wong, E., & Weisstein, N. The effects of flicker on	440
Neff, D. L., & Green, D. M. Masking produced by	409	the perception of figure and ground	440
spectral uncertainty with multicomponent maskers	409	Wu Yu-Kui. See Rao Yu-An. Yonas, A., Craton, L. G., & Thompson, W. B. Rela-	
O'Connor, T. See Wenderoth, P. (2)		tive motion: Kinetic information for the order of	
Palmer, C., & Krumhansl, C. L. Pitch and temporal contributions to musical phrase perception: Effects			53
of harmony, performance timing, and familiarity	505	depth at an edge	33
Parasuraman, R., & Mouloua, M. Interaction of signal	303		
discriminability and task type in vigilance decrement	17		
Parker, S. See Schneider, B. A.	1,	NOTICES AND ANNOUNCEMENTS	
Pashler, H. Detecting conjunctions of color and form:		HORED IND INTO HELDER	
Reassessing the serial search hypothesis	191	New associate editors for Perception & Psychophysics	85
Pashler, H. Target-distractor discriminability in visual		"The Understanding of Melody and Rhythm." A spe-	
search	285	cial issue of Perception & Psychophysics	85
Pitt, M. A., & Monahan, C. B. The perrand similar-		Publication of abstracts of Psychonomic Society jour-	
ity of auditory polyrhythms	534	nal articles	85
Plastow, E. See Braine, L. G.		Fechner Centennial Symposium on Foundational	
Porac, C. See Coren, S.		Problems of Psychophysics	86
Power, R. P. See Davidson, B.		Third International Symposium of the Northern Eye	
Quinlan, P. T., & Humphreys, G. W. Visual search for		Institute	86
targets defined by combinations of color, shape, and		XXIV International Congress of Psychology	86
size: An examination of the task constraints on fea-		11th European Conference on Visual Perception .	283
ture and conjunction searches	455	28th Annual Meeting of the Psychonomic Society 283	
Randall, J. See Jordan, K.			, 382
Rao Yu-An, Carterette, E. C., & Wu Yu-Kui. A com-		Third Annual Meeting of the International Society for	
parison of the musical scales of the ancient Chinese		Psychophysics	480
bronze bell ensemble and the modern bamboo flute	547	17th Annual Meeting: Society for Computers in	
Rubsamen, C. See Matin, E.		Psychology	480
Schneider, B. A., & Parker, S. Intensity discrimination		Student Paper Competition: Society for Computers	400
and loudness for tones in notched noise	253	in Psychology	480
Shepard, R. N. See Jordan, D. S.		Symposium on Music and Cognitive Sciences	657
Slavin, L. K. See Blough, P. M.		First International Conference on Visual Search	657

